

SAFETY DATA SHEET Clomazone

Revision: 10/17/2017

		ording to Regulation (EC) No. 1907/2006 as amended by (I					
	Section I. I	dentification of the Substance/Mixture and of th	e Company/Undertaking				
1	Product Code:	23298					
	Product Name:	Clomazone					
	Synonyms:	2-[(2-chlorophenyl)methyl]-4,4-dimethyl-3-isoxa	izolidinone; Dimethazone;				
2	Relevant identified uses of	f the substance or mixture and uses advised aga	inst:				
	Relevant identified uses:	For research use only, not for human or veterin	ary use.				
.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name: Cayman Chemical Company						
		1180 E. Ellsworth Rd.					
	Web site address:	Ann Arbor, MI 48108					
	Information:	www.caymanchem.com Cayman Chemical Company	1 (724)071 2225				
			+1 (734)971-3335				
4	Emergency telephone nun		.1 (200) 404 0000				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300				
			+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
1	Classification of the Subst	ance or Mixture:					
.2	Aquatic Toxicity (Chroni Label Elements:	ic), Category 3					
.2		ic), Category 3					
2	Label Elements:						
2		ic), Category 3 Warning					
2	Label Elements:	Warning					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallower	Warning					
2	Label Elements: Constant of the second state of the second stat	Warning ed. with skin.					
2	Label Elements: Constant of the second se	Warning ed. with skin.					
2	Label Elements: Constant of the second se	Warning ed. with skin. c life. life with long lasting effects.					
2	Label Elements: Constraints of the second state of the second sta	Warning ed. with skin. c life. life with long lasting effects. s: list/fume/gas/mist/vapors/spray}.					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallower H312: Harmful if swallower H332: Harmful if inhaled. H400: Very toxic to aquatic H412: Harmful to aquatic I GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thore	Warning ed. with skin. c life. life with long lasting effects. s: ust/fume/gas/mist/vapors/spray}. pughly after handling.					
2	Label Elements: Constraints of the second state of the second sta	Warning ed. with skin. c life. life with long lasting effects. s: ist/fume/gas/mist/vapors/spray}. pughly after handling. e environment.					
2	Label Elements:	Warning ed. with skin. c life. life with long lasting effects. s: list/fume/gas/mist/vapors/spray}. oughly after handling. e environment. oves/protective clothing/eye protection/face protection	n}.				
2	Label Elements: Constraints of the second s	Warning ed. with skin. c life. life with long lasting effects. s: list/fume/gas/mist/vapors/spray}. bughly after handling. e environment. boves/protective clothing/eye protection/face protection.					
2	Label Elements: Constraints of the second state of the second sta	Warning ed. with skin. c life. life with long lasting effects. s: list/fume/gas/mist/vapors/spray}. oughly after handling. e environment. oves/protective clothing/eye protection/face protection					
2	Label Elements: Constraints of the second state of the second sta	Warning ed. with skin. c life. life with long lasting effects. s: list/fume/gas/mist/vapors/spray}. bughly after handling. e environment. bves/protective clothing/eye protection/face protection ED: P312: Call a POISON CENTER or doctor/physic	cian if you feel unwell.				
2	Label Elements: Constraints of the second state of the second sta	Warning ed. with skin. c life. life with long lasting effects. s: st/fume/gas/mist/vapors/spray}. bughly after handling. e environment. bves/protective clothing/eye protection/face protection ED: P312: Call a POISON CENTER or doctor/physic Vash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posit	cian if you feel unwell.				



L

SAFETY DATA SHEET Clomazone

٦

Revision: 10/17/2017

	Adverse Human Health Harmful if inhaled, swallowed, or in contact with skin. Effects and Symptoms: Harmful to aquatic life with long lasting effects. Material may be irritating to the mucous membranes and upper respiratory tract. May cause eye, skin, or respiratory system irritation. Very toxic to aquatic life. To the best of our knowledge, the toxicological properties have not been thoroughly investiga Section 3. Composition/Information on Ingredients					t been thoroughly investigated.
CAS RTE	#/ CS #	1	oonents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification
-	77-89-1 977000	3-Isoxazolidinone, 2(.(2-Chlorophenyl)methyl.)4,4-dimeth	100.0 %	617-258-0 NA	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332 Aquatic (A) 1: H400 Aquatic (C) 3: H412
		·	Section 4. Fi	rst Aid Meas	ures	
	In Cas In Cas	e of Inhalation: e of Skin Contact: e of Eye Contact: e of Ingestion:	Get immediate medical attent Immediately wash skin with s clothing. Get medical attention Hold eyelids apart and flush of and tested by medical person Wash out mouth with water p	tion. soap and plenty of w on if symptoms occu eyes with plenty of w nnel. provided person is co	rater for at least 15 r. Wash clothing b vater for at least 1 onscious. Never g	5 minutes. Have eyes examined
			medical personnel.			
			medical personnel. Section 5. Fire	Fighting Me	asures	
5.1	Media	able Extinguishing	-	carbon dioxide, wate exposed containers.	er, or dry chemical	spray.
5.1	Media: Unsuit Media:	able Extinguishing	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-	carbon dioxide, wate exposed containers.	er, or dry chemical	spray.
	Media: Unsuit Media: Flamm Hazaro Flash I Explos	able Extinguishing able Properties an Is:	Section 5. Fire Use alcohol-resistant foam, o Use water spray to cool fire-o A solid water stream may be dNo data available.	carbon dioxide, wate exposed containers.	er, or dry chemica	spray.

Multi-region format

Cayman

SAFETY DATA SHEET Clomazone

Revision: 10/17/2017

Page: 3 of 5

		Section 6. Accidental Release Measures
6.1	Emergency Procedures:	Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	Eye Protection:	Safety glasses
	Protective Gloves:	Compatible chemical-resistant gloves
	Other Protective Clothing:	Lab coat
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling. No data available.
		ection 9. Physical and Chemical Properties
9.1	-	ical and Chemical Properties
	Physical States:	[]Gas []Liquid [X]Solid
	Appearance and Odor:	A crystalline solid
	pH: Malifian Dainte	No data.
	Melting Point:	No data.
	Boiling Point:	No data. No data.
	Flash Pt:	No data.
	Evaporation Rate:	No data available.
	Flammability (solid, gas): Explosive Limits:	LEL: No data. UEL: No data.
	Vapor Pressure (vs. Air or	
	Hg):	
	Vapor Density (vs. Air = 1)	: No data.
		Multi-region format

SAFETY DATA SHEET Clomazone



Page: 4 of 5

	Specific Gravity (Water =	= 1): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~1 mg/ml in PBS (pH 7.2); ~	-16 mg/	ml in DMSC); ~33 mg/ml i	n EtOH & DM	F;
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Tempera	ture: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & We	ight: C12H14CINO2 239.7					
		Section 10. Stability	and	Reactiv	rity		
10.1	Reactivity:	No data available.					
10.2	Stability:	Unstable [] Stable [X]					
10.3	Stability Note(s):	Stable if stored in accordance with	informat	tion listed o	n the product i	nsert.	
	Polymerization:	Will occur [] Will not occur [X	[]				
10.4	Conditions To Avoid:	No data available.					
10.5	Incompatibility - Materia	s strong oxidizing agents					
	To Avoid:						
10.6	Hazardous	carbon dioxide					
	Decomposition or	carbon monoxide					
	Byproducts:	hydrogen chloride					
		nitrogen oxides					
		Section 11. Toxicolog	gical I	Informa	tion		
11.1	Information on	The toxicological effects of this proc	duct hav	ve not been	thoroughly stu	ıdied.	
	Toxicological Effects:	Clomazone - Toxicity Data: Oral LD	50 (rat)	: 1369 mg/k	g;		
	Chronic Toxicological	Clomazone - Investigated as an age	ricultura	l chemical.			
	Effects:	Only select Registry of Toxic Effects	s of Che	emical Subs	tances (RTEC	S) data is pre	sented here.
		See actual entry in RTECS for com	-	formation.			
		Clomazone RTECS Number: NY29	77000				
CAS	# Hazardous Cor	nponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
817	77-89-1 3-Isoxazolidinon	e, 2(.(2-Chlorophenyl)methyl.)4,4-0	dimeth	n.a.	n.a.	n.a.	n.a.
	·	Section 12. Ecologi	cal In	formation	on		
12.1	Toxicity:	Avoid release into the environment.					
		Runoff from fire control or dilution w	ater ma	ay cause po	llution.		
12.2	Persistence and	No data available.					
	Degradability:						
12.3	Bioaccumulative	No data available.					
	Potential:						
12.4	Mobility in Soil:	No data available.					
12.5	Results of PBT and vPvI						
	assessment:						
12.6	Other adverse effects:	No data available.					
1							Iulti-region format

Cayman

SAFETY DATA SHEET Clomazone

Revision: 10/17/2017

Page: 5 of 5

SPORT (ICAO/ hipping Name: bort rfund Amendm azardous Com lsoxazolidinone (.(2-Chlorophe azardous Com lsoxazolidinone (.(2-Chlorophe	Section 14. Tran DOT): Not dangerous goods. Depen ADR/RID): Not dangerous goods. IATA): Not dangerous goods. Transport in accordance with low Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth	ocal, state, and feder Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or	ral regulations. ation S. 304 RQ No State Lists	S. 313 (TRI) No : No; TSCA: No; CA
hipping Name: Class: er: NSPORT (Euro pping Name: SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com lsoxazolidinone .(.(2-Chlorophe azardous Com	DOT): Not dangerous goods. Depean ADR/RID): Not dangerous goods. IATA): Not dangerous goods. Transport in accordance with low Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) Panal	ocal, state, and feder Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	al regulations.	No
hipping Name: Class: er: NSPORT (Euro pping Name: SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com lsoxazolidinone .(.(2-Chlorophe azardous Com	 Not dangerous goods. Opean ADR/RID): Not dangerous goods. IATA): Not dangerous goods. Transport in accordance with loging the section 15. Regulation Action Section Action Action Section Action A	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
Class: er: NSPORT (Euro pping Name: SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com -lsoxazolidinone (.(2-Chlorophe azardous Com	Depean ADR/RID): Not dangerous goods. IATA): Not dangerous goods. Transport in accordance with lo Section 15. Regu Dents and Reauthorization Act ponents (Chemical Name) S, nyl)methyl.)4,4-dimeth ponents (Chemical Name)	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
ANSPORT (Euro oping Name: SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com -lsoxazolidinone (.(2-Chlorophe azardous Com -lsoxazolidinone (.(2-Chlorophe	Not dangerous goods. IATA): Not dangerous goods. Transport in accordance with lo Section 15. Regu nents and Reauthorization Act ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth a, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
SPORT (ICAO/ hipping Name: bort rfund Amendm azardous Com lsoxazolidinone (.(2-Chlorophe azardous Com lsoxazolidinone (.(2-Chlorophe	Not dangerous goods. IATA): Not dangerous goods. Transport in accordance with lo Section 15. Regu nents and Reauthorization Act ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth a, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com -lsoxazolidinone (.(2-Chlorophe azardous Com -lsoxazolidinone (.(2-Chlorophe	IATA): Not dangerous goods. Transport in accordance with lo Section 15. Regu nents and Reauthorization Act ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com -lsoxazolidinone (.(2-Chlorophe azardous Com -lsoxazolidinone (.(2-Chlorophe	Not dangerous goods. Transport in accordance with lo Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
SPORT (ICAO/I hipping Name: bort rfund Amendm azardous Com -lsoxazolidinone (.(2-Chlorophe azardous Com -lsoxazolidinone (.(2-Chlorophe	Not dangerous goods. Transport in accordance with lo Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
rfund Amendm azardous Com -Isoxazolidinone (.(2-Chlorophe azardous Com -Isoxazolidinone (.(2-Chlorophe	Not dangerous goods. Transport in accordance with lo Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
rfund Amendm azardous Com -Isoxazolidinone (.(2-Chlorophe azardous Com -Isoxazolidinone (.(2-Chlorophe	Transport in accordance with lo Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth ponents (Chemical Name) a, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
rfund Amendm azardous Com Isoxazolidinone (.(2-Chlorophe azardous Com Isoxazolidinone (.(2-Chlorophe	Section 15. Regu nents and Reauthorization Act ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	Ilatory Informa of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	Ation S. 304 RQ No State Lists	No
azardous Com -Isoxazolidinone (.(2-Chlorophe azardous Com -Isoxazolidinone (.(2-Chlorophe	nents and Reauthorization Act ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	S. 304 RQ No State Lists	No
azardous Com -Isoxazolidinone (.(2-Chlorophe azardous Com -Isoxazolidinone (.(2-Chlorophe	nents and Reauthorization Act ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	of 1986) Lists S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	S. 304 RQ No State Lists	No
azardous Com -Isoxazolidinone (.(2-Chlorophe azardous Com -Isoxazolidinone (.(2-Chlorophe	ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	S. 302 (EHS) No Other US EPA or CAA HAP,ODC:	No State Lists	No
-Isoxazolidinone (.(2-Chlorophe azardous Com -Isoxazolidinone (.(2-Chlorophe	ponents (Chemical Name) , nyl)methyl.)4,4-dimeth ponents (Chemical Name) , nyl)methyl.)4,4-dimeth	No Other US EPA or CAA HAP,ODC:	No State Lists	No
.(.(2-Chlorophe azardous Com Isoxazolidinone .(.(2-Chlorophe	nyl)methyl.)4,4-dimeth ponents (Chemical Name) e, nyl)methyl.)4,4-dimeth	Other US EPA or CAA HAP,ODC:	State Lists	
-Isoxazolidinone (.(2-Chlorophe	e, nyl)methyl.)4,4-dimeth	CAA HAP,ODC:		: No; TSCA: No; CA
(.(2-Chlorophe	nyl)methyl.)4,4-dimeth		No; CWA NPDES	: No; TSCA: No; CA
otion				
nation	This SDS was prepared in accord No.1272/2008.	ordance with 29 CFR	1910.1200 and R	egulation (EC)
	Section 16. Ot	her Informatio	n	
	10/17/2017			
ation About	No data available.			
or Disclaimer:	currently available to us. However, express or implied, with respect	ver, we make no war t to such information	ranty of merchant , and we assume i	ability or any other warran no liability resulting from it
or	Disclaimer:	currently available to us. Howe express or implied, with respec use. Users should make their	currently available to us. However, we make no war express or implied, with respect to such information use. Users should make their own investigations to	currently available to us. However, we make no warranty of merchants express or implied, with respect to such information, and we assume in use. Users should make their own investigations to determine the suit